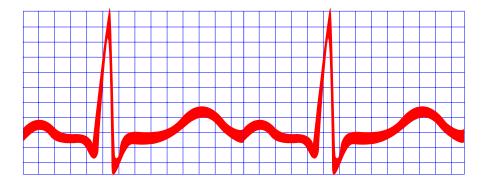
## Lincoln EMS

# Cardiac Arrest Statistics

1997- December 31, 2004



Data Compiled by:

EMS, Inc.

5625 O Street, Suite 3

Lincoln, NE 68510

402-483-4800

### **Total Cardiac Arrests**

### 1.a: Resuscitations Attempted

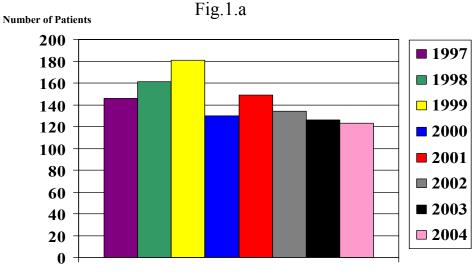
Definition: Number of cardiac arrest patients transported that resuscitation was attempted by EMS.

### 1.b: Cardiac Arrest Origin

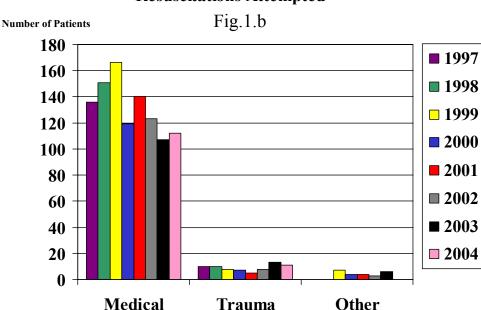
	Medicals	Trauma	Other*
1997 =	136	10	
1998 =	151	10	
1999 =	166	8	7
2000 =	119	7	4
2001 =	140	5	4
2002 =	123	8	3
2003 =	107	13	6
2004 =	112	11	

Definition: Total number of cardiac arrests resulting from a presumed cause.

\*Other includes Overdose, Hanging, Carbon Monoxide, etc.



**Resuscitations Attempted** 



### 2.a: Average Age of Cardiac Arrests/Survivors

	All Arrests	Survivors
1998	62.9	50.6
1999	64.5	64.5
2000	63.0	65.9
2001	60.2	52.8
2002	59.9	56.1
2003	58.4	53.0
2004	60.3	66.9

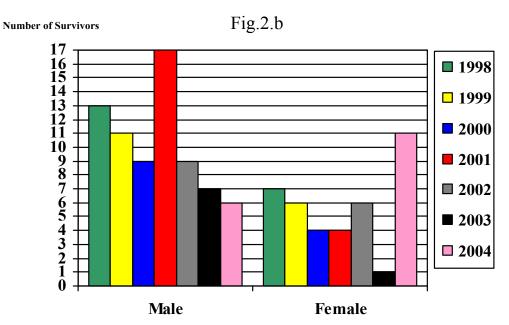
Definition: Average age of all cardiac arrest patients, and average age of cardiac arrest survivors.

### 2.b: Cardiac Arrest Survivors by Gender

	Survivors		Total Number of	
	Male	Female	Resuscitations Attempted	
1998	13	7	161	
1999	11	6	181	
2000	9	4	130	
2001	17	4	149	
2002	9	6	134	
2003	7	1	126	
2004	6	11	123	

Definition: Total number of cardiac arrest survivors per gender.

Fig.2.a Age of Patient **All Arrests Survivors** 



Lincoln EMS, Inc.

### **ALS Skill Proficiency**

#### 3.a: Advanced Life Support Skills (Minutes)

	IV Access	ET Intubation	Medication	Defib 1	* Defib 2**
1998	6.8	4.9	6.1		N/R
1999	6.3	4.7	5.5	6.6	N/R
2000	6.1	4.9	5.7	5.6	N/R
2001	8.1	5.0	6.0	4.6	N/R
2002	7.6	4.7	6.1	4.2	N/R
2003	6.9	4.9	5.8	5.2	N/R
2004	6.9	5.8	6.8	5.9	1.7

Definition: IV, ET & Meds measured in minutes from provider arrival at scene to completion of skill.

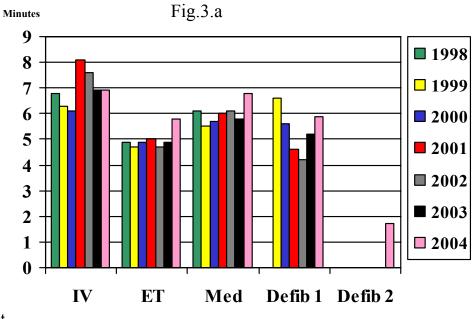
\*Defib 1: measured in minutes from time of dispatch to first countershock delivered.

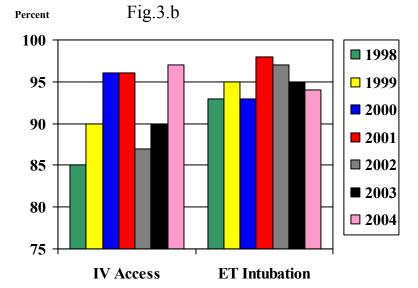
\*\*Defib 2: measured in minutes from time at patient side to first countershock delivered.

#### 3.b: Percent of Patients Receiving Intubation/IV access

	IV Access	ET Intubation
1998	85%	93%
1999	90%	95%
2000	96%	93%
2001	96%	98%
2002	87%	97%
2003	90%	95%
2004	97%	94%

Definition: Percentage of cardiac arrest patients that received the IV or ET Intubation when indicated.





### 4.a: Percentage of Bystander CPR by Location of Arrest

	Residence	Public Place	Medical Facility*	Total
1998				36%
1999	30%	77%	97%	46%
2000	29%	67%	100%	41%
2001	35%	54%	95%	46%
2002	32%	38%	86%	40%
2003	26%	33%	88%	37%
2004	25%	42%	100%	39%

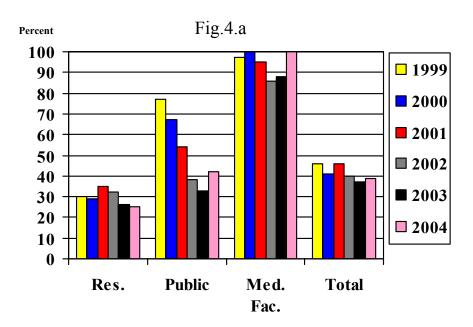
Definition: Percentage of patients receiving bystander CPR, based upon the location of arrest.

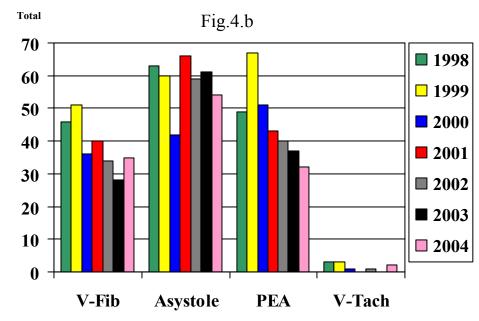
\*Medical Facility includes skilled care facilities and physician offices.

### 4.b: Initial Cardiac Arrest ECG Rhythm

	V-Fib	Asystole	PEA	V-Tach	Total
1998	46	63	49	3	161
1999	51	60	67	3	181
2000	36	42	51	1	130
2001	40	66	43	0	149
2002	34	59	40	1	134
2003	28	61	37	0	126
2004	35	54	32	2	123

Definition: Initial cardiac rhythm as described by EMS upon initial assessment of the cardiac arrest condition.





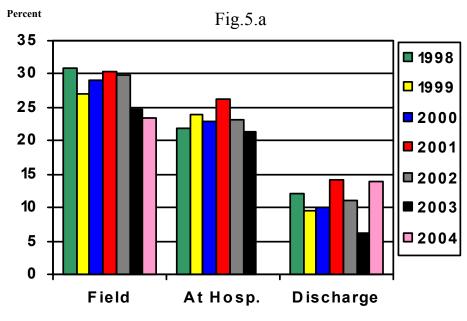
	In Field*	At Hospital**	Survival to Discharge***
1998	31%	22%	12%
1999	27%	24%	9%
2000	29%	23%	10%
2001	30%	26%	14%
2002	30%	23%	11%
2003	25%	21%	6%
2004	24%	N/R	14%

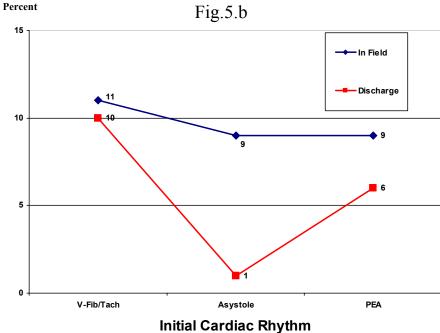
Definition: The percentage of patients who had a return of a pulse during the period of pre-hospital care.

<u>5.b:</u> Return of Spontaneous Circulation by Initial Rhythm In the year 2003.

	V-Fib/Tach	Asystole	PEA	Total
# Treated	37	54	32	123
In Field	11(29.7%)	9(16.6%)	9(28.1%)	29(23.5%)
Discharged Alive	10(27%)	1(1%)	6(18.7%)	17(13.8%)

*Definition:* The total number of patients with the return of a pulse, classified by presenting cardiac rhythm.



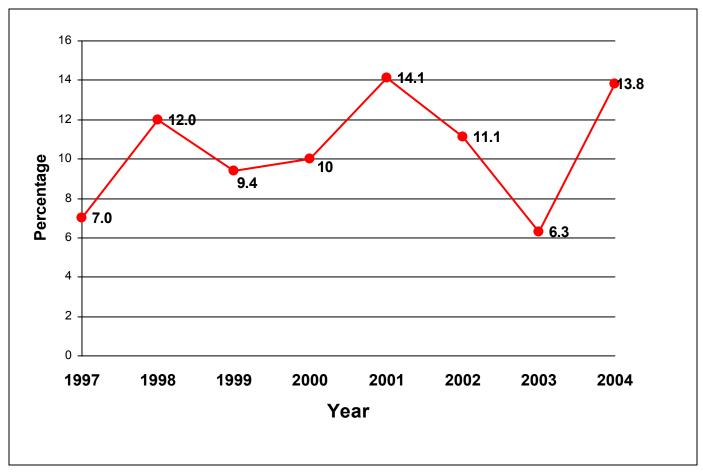


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<sup>\*\*</sup>Not recorded for the year 2004

<sup>\*\*\*</sup>Includes those patients that experience a loss of pulse and respirations while under the care of EMS and then are discharged alive from the hospital.

### Survivors of Cardiac Arrest Discharged From The Hospital



*Definition:* Percentage of patients resuscitated by the EMS System and eventually were discharged from the hospital. The cardiac arrest statistics include all transported cardiac arrest patients to include calls originating in both the City of Lincoln and Lancaster County.